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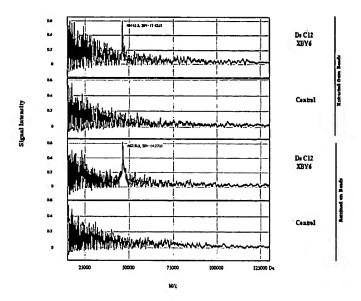


Figure 1

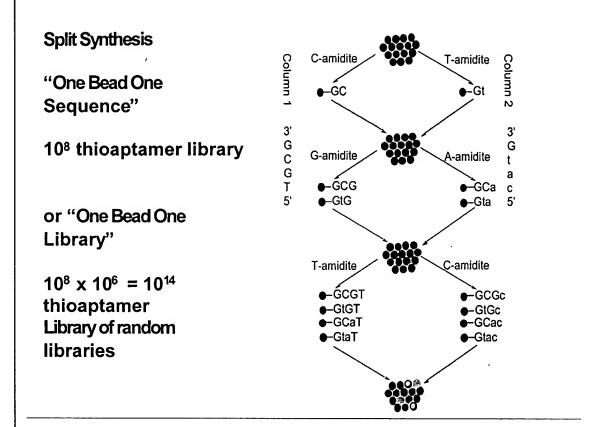


Figure 2

Antibody based assay screen - fluorigenic

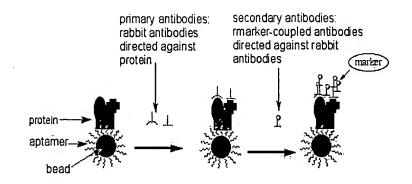


Figure 3

Dual Color Bead Labeling

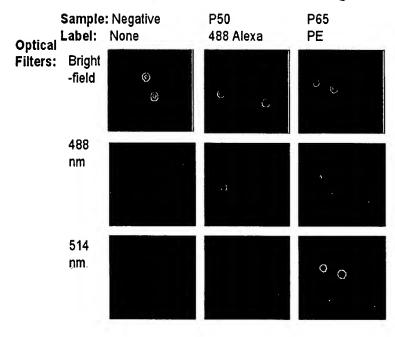


Figure 4

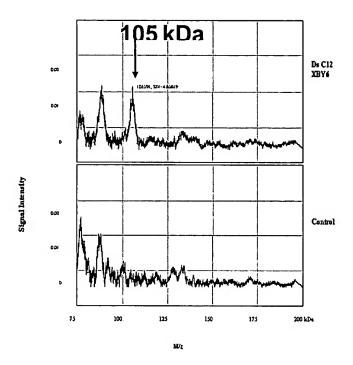


Figure 5

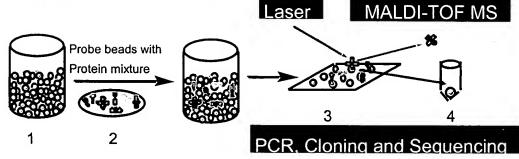
Sequences of individual beads of dithioate library selected for binding to

NF-_KB Sequences from screening with Sequences from immunofluorescence fluorescently labeled p50 protein assay ☐ 1 CGCCAGCCAaAGGTGCTGTCAG ☐1 ATGTAGCCAaAGGTGgaACCCC ☐ 2 CGCCcAGTgGCTAGTgaACCCC □2 CGCCAGCCgaAGGTGCTGTCAG ☐ 3 ATGTAGCCgaAGGTGgaACCCC □3 CGCCcAGTgaAGGTGCTGTCAG ☐ 4 CGCCAGCCgaAGGTGgaACCCC □4 CGCCcAGTAGCTAGTCTGTCAG □ A 1000310013301000330010 □ C 3033103300100001003433 □A 1000220023301000110030 ☐ G 0310031031033133010001 □C 3033202200100003001411 ☐ T 0101000100010310101000 □G 0310022021033131030003 □T 0101000200010310303000 CGCCAGCCgaAGGTGgaACCCC CGCCAGCCgaAGGTGCTGTCAG

Figure 6

CAGTA

High-Throughput Identification of Proteins & Aptamers Using Bead-Based Library



- 1. Thioaptamer bead library
- 2. Incubate with protein mixture/extract
- 3. Select beads by robotic spot-picker
- 4. Identify Protein by MALDI-TOF
- 5. Identify Thioaptamer: PCR, Cloning and Sequencing

5 J 5'-CGAT* CAG-3'



Figure 8

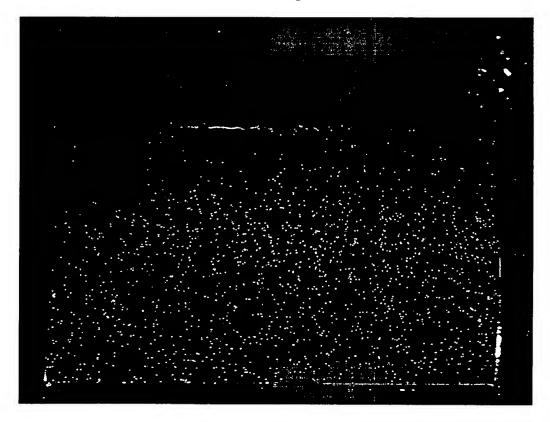


Figure 9

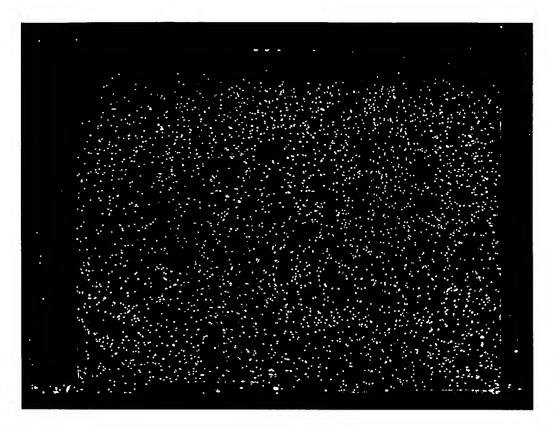


Figure 10

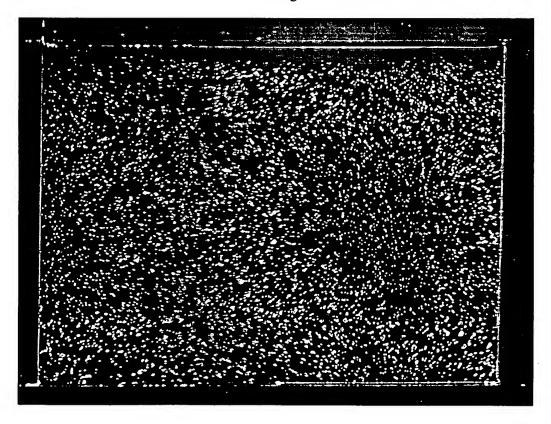


Figure 11